

Form PTO-1449 (Modified)  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	Application No.	09/864,093
	Filing Date	05/21/2001
	First Named Inventor	Clark et al.
	Group Art Unit	2633 <del>2638</del>
	Examiner Name	
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U.S. PATENT DOCUMENTS									
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD- YYYY)	CLASS	SUB CLASS	FILING DATE
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
HP	AA		09/823,175 (with Preliminary Amendment filed 7/25/01)		Willebrand				03/29/2001
HP	AB		09/849,613		Willebrand et al.				05/04/2001
HP	AC		09/482,782		Willebrand et al.				01/13/2000
HP	AD		6,239,888	B1	Willebrand	05/29/2001			04/24/1998
HP	AE		6,219,363	B1	Fix et al.	04/17/2001			04/29/1999
HP	AF		6,122,084		Britz et al.	09/19/2000			03/03/1998
MP	AG		6,049,593		Acampora	04/11/2000			12/19/1997
MP	AH		6,014,236		Flaherty	01/11/2000			02/04/1997
MP	AI		5,995,253		Flaherty	11/30/1999			02/04/1997
MP	AJ		5,983,068		Tomich et al.	11/9/1999			02/29/1996
HP	AK		5,978,118		Flaherty	11/02/1999			02/04/1997
HP	AL		5,966,229		Dodley et al.	10/12/1999			06/18/1997
HP	AM		5,946,120		Chen	08/31/1999			05/30/1997
HP	AN		5,917,629		Hortensius et al.	06/29/1999			10/29/1990
HP	AO		5,859,725		Sugiya et al.	01/12/1999			01/12/1999
HP	AP		5,844,705		Rutledge	12/01/1998			02/13/1997
HP	AQ		5,838,470		Radehaus et al.	11/17/1998			06/04/1997
HP	AR		5,818,619		Medved et al.	10/06/1998			06/13/1996

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
HP	AS		5,786,923		Doucet et al.	07/28/1998	—		03/29/1996
HP	AT		5,778,116		Tomich	07/07/1998	—		01/23/1997
HP	AU		5,777,768		Korevaar	07/07/1998	—		08/29/1996
HP	AV		5,764,677		Scheps	06/09/1998	—		12/14/1995
HP	AW		5,748,813		Cassidy et al.	05/05/1998	—		07/28/1993
HP	AX		5,661,582		Kintis et al.	08/26/1997	—		10/26/1995
HP	AY		5,659,413		Carlson	08/19/1997	—		02/28/1995
HP	AZ		5,654,816		Fishman	08/05/1997	—		06/06/1996
HP	BA		5,606,444		Johnson et al.	02/25/1997	—		10/20/1994
HP	BB		5,596,661		Henry et al.	01/21/1997	—		12/28/1994
HP	BC		5,588,015		Yang	12/24/1996	—		08/22/1995
HP	BD		5,587,830		Chrapplyvy et al.	12/24/1996	—		05/28/1993
HP	BE		5,574,589		Feuer et al.	11/12/1996	—		01/09/1995
HP	BF		5,526,161		Suzuki et al.	06/11/1996	—		06/20/1994
HP	BG		5,475,520		Wissinger	12/12/1995	—		06/22/1994
HP	BH		5,465,170		Arimoto	11/07/1995	—		01/19/1994
HP	BI		5,457,562		Tremblay	10/10/1995	—		05/20/1994
HP	BJ		5,452,124		Baker	09/19/1995	—		03/04/1994
HP	BK		5,448,391		Iriyama et al.	09/05/1995	—		06/29/1993
HP	BL		5,443,227		Hsu	08/22/1995	—		10/15/1993
HP	BM		5,416,864		Cassidy et al.	05/16/1995	—		11/20/1991

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
HP	BN		5,416,627		Wilmoth	05/16/1995			04/24/1992
HP	BO		5,410,147		Riza et al.	04/25/1995			08/20/1992
MP	BP		5,400,166		Huber	03/21/1995			10/20/1992
HP	BQ		5,394,489		Koch	02/28/1995			07/27/1993
HP	BR		5,390,040		Mayeux	02/14/1995			02/04/1994
HP	BS		5,384,652		Allen et al.	1/24/1995			01/06/1993
HP	BT		5,371,734		Fischer	12/06/1994			01/29/1993
MP	BU		5,359,446		Johnson et al.	10/25/1994			09/10/1992
HP	BV		5,353,294		Shigeno	10/04/1994			09/30/1992
MP	BW		5,331,449		Huber et al.	07/19/1994			03/15/1993
HP	BX		5,311,535		Karpinski	05/10/1994			07/28/1992
HP	BY		5,301,054		Huber et al.	04/05/1994			01/14/1993
HP	BZ		5,267,010		Kremer et al.	11/30/1993			05/31/1991
HP	CA		5,247,381		Olmstead et al.	09/21/1993			05/20/1992
HP	CB		5,223,781		Criswell et al.	06/29/1993			03/08/1990
HP	CC		5,221,983		Wagner	06/22/1993			01/19/1989
HP	CD		5,218,467		Ross et al.	06/08/1993			12/28/1990
HP	CE		5,218,356		Knapp	06/08/1993			05/31/1991
HP	CF		5,210,631		Huber et al.	05/11/1993			12/22/1989
HP	CG		5,200,631		Austin et al.	04/06/1993			08/06/1991

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HP	CH		5,185,814		Healey	02/9/1993			07/13/1990
HP	CI		5,185,758		Fan et al.	02/09/1993			01/07/1992
HP	CJ		5,142,400		Solinsky	08/25/1992			05/28/1991
HP	CK		5,083,874		Aida et al.	01/28/1992			04/10/1990
HP	CL		5,068,916		Harrison et al.	11/26/1991			10/29/1990
HP	CM		5,060,303		Wilmoth	10/22/1991			09/06/1988
HP	CN		5,019,768		Criswell et al.	05/28/1991			02/11/1988
HP	CO		5,005,937		Aida et al.	04/09/1991			04/10/1990
HP	CP		4,975,926		Knapp	12/04/1990			03/30/1989
HP	CQ		4,932,775		Wissman et al.	06/12/1990			11/21/1988
HP	CR		4,922,502		Untermahrer et al.	05/01/1990			06/29/1988
HP	CS		4,826,269		Streifer et al.	05/02/1989			10/16/1987
HP	CT		4,823,357		Casey	04/18/1989			11/10/1986
HP	CU		4,794,345		Linford et al.	12/27/1988			02/26/1986
HP	CV		4,773,063		Hunsperger et al.	09/20/1988			11/13/1984
HP	CW		4,761,039		Yeh et al.	08/02/1988			07/28/1986
HP	CX		4,757,268		Abrams et al.	07/12/1988			05/22/1985
HP	CY		4,717,913		Elger	01/05/1988			08/29/1985
HP	CZ		4,689,482		Horikawa et al.	08/25/1987			06/13/1985

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
HP	DA		4,639,586		Fender et al.	01/27/1987			02/06/1985
HP	DB		4,630,254		Tseng	12/16/1986			10/26/1984
HP	DC		4,428,647		Spragus et al.	01/31/1984			11/04/1982
HP	DD		4,060,769		Mallozzi et al.	11/29/1977			09/20/1974
HP	DE		3,967,899		O'Meara	07/06/1976			12/30/1974
HP	DF		3,488,586		Watrous et al.	01/06/1970			06/02/1965

FOREIGN PATENT DOCUMENTS										
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	FOREIGN PATENT DOCUMENT			DATE OF PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	TRANSLATION	
			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KIND CODE (if known)				YES	NO
HP	DG		WO	00/54413	A2	09/14/2000			X	
HP	DH		GB	2 228 385	A	08/22/1990			X	

OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
HP	DI		G. NYKOLAK et al.; "A 40 Gb/s DWDM Free Space Optical Transmission Link Over 4.4 km"; <i>Free Space Laser Communication Technologies XII; Proceedings of SPIE</i> ; Vol. 3932, pp. 16-20; (2000).

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HP	DJ		P. F. SZAJOWSKI et al.; "Key Elements of High-Speed WDM Terrestrial Free-Space Optical Communications Systems"; <i>Free-Space Laser Communication Technologies XII; Proceedings of SPIE</i> ; Vol. 3932, pp. 2-14; (2000).
HP	DK		R. PAIELLA et al.; "Generation and Detection of High-Speed Pulses of Mid-Infrared Radiation with Intersubband Semiconductor Lasers and Detectors"; <i>IEEE Transactions on Photonics Technology Letters</i> ; Vol. 12, No. 7; pp. 780-782; (July 2000).
HP	DL		F. G. OMENETTO et al.; "Shaping, Propagation and Characterization of Ultrafast Pulses in Optical Fibers"; <i>Applied Physics B, Lasers and Optics</i> ; pp. 1-6; (2000).
HP	DM		G. NYKOLAK et al.; "Update on 4x2.5 Gb/s, 4.4km Free-Space Optical Communications Link: Availability and Scintillation Performance"; <i>Part of the SPIE Conference on Optical Wireless Communications II; SPIE</i> ; Vol. 3850; pp. 11-19 (September 1999).
HP	DN		S. SCHILLER et al.; "Theory of an Optical Parametric Oscillator with Resonant Pump and Signal"; <i>J. Optical Society of America</i> ; Vol. 16, No. 9; pp. 1512-1524; (September 1999).
HP	DO		P. F. SZAJOWSKI et al.; "High Power Optical Amplifiers Enables 1550 nm Terrestrial Free-Space Optical Data-Links Operating @ WDM 2.5 Gb/s Data Rates"; <i>Part of the SPIE Conference on Optical Wireless Communications II; SPIE</i> ; Vol. 3850; pp. 2-10; (September 1999).
HP	DP		Y. YASHKIR et al.; "Passively Q-Switched 1.5 - $\mu$ m Intracavity Optical Parametric Oscillator"; <i>Applied Optics</i> , Vol. 38, No. 12; pp. 2554-2559; (April 1999).
HP	DQ		GUILFOYLE et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; <i>Computer; IEEE</i> ; pp. 69-75; (February 1998).
HP	DR		KIM et al.; "Scintillation Reduction Using Multiple Transmitters"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2990; pp. 102-113; (1997).
HP	DS		BELMONTE et al.; "Performance of a Multiple-Aperture Optical System"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2699; pp. 316-326; (1996).
HP	DT		K. E. WILSON et al.; "Preliminary Results of the Ground/Orbiter Lasercomm Demonstration Experiment between Table Mountain and the ETS-VI Satellite"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2699; pp. 121-132 (1996).

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OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
HP	DU		A. LOURI et al.; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; <i>Applied Optics</i> , Vol. 35, No. 8; pp. 1296-1308 (March 10, 1996).
HP	DV		J. SCHUSTER et al.; "Optomechanical Design of STRV-2 Lasercom Transceiver Using Novel Azimuth/Slant Gimbal"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2699; pp. 227-239 (January 30-31, 1996).
HP	DW		E. KOREVAAR et al.; "Design of Satellite Terminal for BMDO Lasercom Technology Demonstration"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2381; pp. 60-71 (February 7-8, 1995).
HP	DX		KUDIELKA et al.; "Experimental Verification of an Adaptive Optical Multi-Aperture Receive Antenna for Laser Space Communications"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2123; pp. 478-483 (1994).
HP	DY		E. KOREVAAR et al.; "Status of BMDO/IST Lasercom Advanced Technology Demonstration"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2123; pp. 96-107 (1994).
MP	DZ		A. S. ACAMPORA; "The Scalable Lightwave Network"; <i>IEEE Communications Magazine</i> ; pp. 36-42 (December 1994).
HP	EA		C. BRACKETT et al.; "A Scalable Multiwavelength Multihop Optical Network: A Proposal for Research on All-Optical Networks"; <i>Journal of Lightwave Technology</i> , Vol. 11, No. 5/6; pp. 736-753, (May/June 1993).
HP	EB		E. KOREVAAR et al.; "Status of SDIO/IS&T Lasercom Testbed Program"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 1866; pp. 116-127 (January 20-21, 1993).
HP	EC		J. H. CHURNSIDE; "Aperture Averaging of Optical Scintillations in the Turbulent Atmosphere"; <i>Applied Optics</i> , Vol. 30, No. 15; pp. 1982-1994 (May 20, 1991).
HP	ED		W. M. BRUNO et al.; "Diode Laser Spatial Diversity Transmitter"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 1044; pp. 187-194 (1989).
HP	EE		A. S. ACAMPORA; "A Multichannel Multihop Local Lightwave Network"; <i>GLOBECOM '87; IEEE</i> ; pp. 1459-1467, (1987).
HP	EF		D. L. FRIED; "Aperture Averaging of Scintillation"; <i>Journal of the Optical Society of America</i> , Vol. 57, No. 2; pp. 169-175 (February 1967).

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<b>Examiner Signature</b>	<i>Hardyhan</i>	<b>Date Considered</b>	<i>09/01/05</i>
<small>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.</small>			



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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
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MP	AE	x	5034997		Iwasaki	07-23-1991	—	—	
HP	AF	x	5227906		Tokumitsu	07-13-1993	—	—	
HP	AG	x	5280184		Jokerst, et al.	01-18-1994	—	—	
HP	AH	x	5321718		Waarts, et al.	06-14-1994	—	—	
MP	AI	x	5329576		Handforth	07-12-1994	—	—	
MP	AJ	x	5416861		Koh, et al.	05-16-1995	—	—	
HP	AK	x	5548772		Lin, et al.	08-20-1996	—	—	
MP	AL	x	5585953		Zavrel	12-17-1996	—	—	
MP	AM	x	5710652		Bloom et al.	10-20-1998	—	—	
MP	AN	x	5786923		Doucet et al.	07-28-1998	—	—	
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MP	AQ	x	5883730		Coult, et al.	03-16-1999	—	—	
MP	AR	x	5936578		Driessen et al.	08-10-1999	—	—	
MP	AS	x	5949564		Wake	09-07-1999	—	—	
MP	AT	x	6016212		Durant et al.	01-18-2000	—	—	
MP	AU	x	6043918		Bozzay et al.	03-28-2000	—	—	

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HP	AV	x	6104513		Bloom	08-15-2000	—		
HP	AW	x	6115157		Barnard, et al.	09-05-2000	—		
HP	AX	x	6141128		Korevaar, et al.	10-31-2000	—		
HP	AY	x	6268944		Szapiel	07-31-2001	—		
HP	AZ	x	6272271		Wojnarowski, et al.	08-07-2001	—		
HP	BA	x	6285481		Palmer	09-04-2001	—		
HP	BB	x	6288813		Kirkpatrick, et al.	09-11-2001	—		
HP	BC	x	6301037		Fischer, et al.	10-09-2001	—		
HP	BD	x	6323980		Bloom	11-27-2001	—		
HP	BE	x	6348986		Doucet, et al.	02-19-2002	—		
HP	BF	x	6381055		Javitt, et al.	04-30-2002	—		
HP	BG	x	6398425		Williams, et al.	06-04-2002	—		
HP	BH	x	6411414		Abate, et al.	06-25-2002	—		
HP	BI	x	6452700		Mays, Jr.	09-17-2002	—		
HP	BJ	x	6462847		Willebrand	10-08-2002	—		
HP	BK	x	6493121		Althaus	12-10-2002	—		
HP	BL	x	6509992		Goodwill	01-21-2003	—		
HP	BM	x	6583904		Mahlab, et al.	06-24-2003	—		
HP	BN	x	RE35736		Powell	02-24-1998	—		
HP	BO	x	2002/0005972		Bloom, et al.	01-17-2002	—		

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EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(a)(2)(ii)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	FILING DATE (MM-DD-YYYY)
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
HP	BP	x	2002/0012139		Willebrand, et al.	01-31-2002	1		
HP	BQ	x	2002/0051269		Margalit et al.	05-02-2002	1		
HP	BR	x	2002/0054411		Heminger et al.	05-09-2002	1		
HP	BS	x	2002/0054413		Shivnan, Aine	05-09-2002	1		
HP	BT	x	2002/0122230		Izadpanah, Hossein; et al.	09-05-2002	1		
HP	BU	x	2002/0122232		Doucet, et al.	09-05-2002	1		
HP	BV	x	2002/0141020		Doucet, et al.	10-03-2002	1		
HP	BW	x	2002/0149811		Willebrand	05-03-2005	1		
HP	BX	x	2002/0167697		Willebrand, Heinz	11-14-2002	1		
HP	BY	x	2002/0171896		Clark, Gerald R.; et al.	11-21-2002	1		

FOREIGN PATENT DOCUMENTS										
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			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KJND CODE (if known)				YES	NO
HP	BZ		DE	4433896	C	09/11/1995	1		X	
MP	CA		EP	0 378 148	B1	04/10/1996	1		X	
MP	CB		EP	0 513 993	A2	11/19/1992	1		X	
MP	CC		WO	00/08783		02/17/2000	1		X	

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	Filing Date	May 21, 2001
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	Examiner Name	Hanh Phan
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			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KIND CODE (if known)				YES	NO
HP	CD		WO	01/52450	A2	07/19/2001	1		X	
HP	CE		GB	2 221 810	A	02/14/1990	1		X	
HP	CF		GB	2 257 321	A	01/06/1993	1		X	
HP	CG		WO	98/32250		07/23/1998	1		X	
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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
HP	CI		A. Belmonte et al.; "Performance of a Multiple-Aperture Optical System"; Society of Photo-Optical Instrumentation Engineers, vol. 2699; 1996; pp. 316-326.
HP	CJ		C. M. Stickley et al.; Demonstration of an Adaptive, Coherent-Combining Laser Radar Receiver; 18 <sup>sup</sup> .th International Laser Radar Conference; 1996; pp. 247-250.
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HP	CL		Hungarian Patent Office, Search Report for Hungarian National Phase of PCT/US00/35198, which claims priority to U.S. App. 09/482,782; dated Jan. 15, 2003; pp. 1-3.
HP	CM		I. I. Kim et al.; Scintillation Reduction Using Multiple Transmitters; Society of Photo-Optical Instrumentation Engineers, vol. 2990; 1997; pp. 102-113.
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HP	CP		K. Kimura et al.; "Global Satellite Communication Network using Double-Layered Inclined Orbit Constellation with Optical Inter-Satellite Links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; SPIE; vol. 2699; 1996; pp. 12-23.

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	Examiner Name	Hanh Phan
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HP	CQ		K. Kimura et al.; "Satellite Constellation of Low Earth Orbit (LEO) Satellite Global Communication Network using Optical Inter-Satellite Links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; SPIE; vol. 2381; 1995; pp. 48-59.
HP	CR		Korevaar, et al., Status of BMDO-IST Lasercom Advanced Technology Demonstration, SPIE-The International Society for Optical Engineering, pgs. 96-107, vol. 2123, Society of Photo-Optical Instrumentation Engineers, Washington, USA.
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HP	CW		"OPTICAL LINKS: Network Connection Directly Through the Atmosphere"; Communication by Light (CBL); Mar. 1995; 8 pages.
HP	CX		PCT International Search Authority; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US02/10075 which claims priority to U.S. Application No. 09/835,866; mailed Jul. 30, 2002; (4 pages).
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HP	DA		PCT International Search Authority; "Notification of Transmittal of the International Search Report" and "International Search Report" for International Application No. PCT/US01/14547 which corresponds to U.S. Appl. No. 09/849,613; mailed Apr. 3, 2003; (7 pages).
HP	DB		PCT International Preliminary Examining Authority; "Notification of Transmittal of the International Preliminary Examination Report"; "PCT International Preliminary Examination Report" for International Application No. PCT/US01/14547 which corresponds to U.S. Appl. No. 09/849,613; mailed Dec. 5, 2003; (6 pages).

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	Examiner Name	Hanh Phan
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HP	DC		PCT International Bureau; "PCT International Search Report" for International Application No. PCT/US02/13473 which corresponds to U.S. Application No. 09/834,093; mailed Jul. 10, 2002; (1 page).
HP	DD		P.S. Guilfoyle et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; Computer; IEEE; Feb. 1998; pp. 66-75.
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HP	DF		S. Hollung et al.; A Bi-Directional Quasi-Optical Lens Amplifier; IEEE Transactions on Microwave Theory and Techniques; vol. 45, No. 12; Dec. 1997; pp. 2352-2357.
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HP	DJ		Wilson, et al., Preliminary Results of the Ground/Orbiter Lasercomm Demonstration Experiment Between Table Mountain and the ETS-VI Satellite, SPIE--the International Society for Optical Engineering, Jan. 30-31, 1996, pgs. 121-132, vol. 2699, Society of Photo-Optical Instrumentation Engineers, Washington, USA.

Examiner Signature	<i>Hanh Phan</i>	Date Considered	09/01/05
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			